

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A communication device comprising:
- a physical medium; and
 - a processor coupled with the physical medium, ~~the processor, wherein the processor is adapted to~~
 - (a) ~~receive~~ receiving a plurality of reservation request frames from a plurality of respective devices during a Centralized Contention Interval for a wireless communication channel, each reservation request frame including a Media Access Control address;
 - (b) ~~decode~~ decoding a reservation request and the Media Access Control address from each reservation request frame, ~~and a return address of a Medium Access Control (MAC) sublayer of an associated device;~~
 - (c) ~~determine~~ determining at the Medium Access Control (MAC) MAC sublayer a schedule of transmission sessions for exchanging data with the respective devices as per the respective reservation requests;
 - (d) ~~identify~~ identifying one of the respective devices from the schedule as being the next one;
 - (e) ~~encode~~ encoding the associated ~~return address~~ Media Access Control address of the next device in a polling frame;
 - (f) ~~acquire~~ acquiring control of the channel;
 - (g) ~~transmit~~ transmitting the polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and
 - (h) ~~exchange~~ exchanging data over the channel from the identified device during the respective session.
2. (Currently amended) The device of claim 1, ~~wherein the processor is further adapted to the processor further:~~
- identify identifying another one of the respective devices from the schedule as being the next one; and
 - ~~repeat (c) through (h).~~
 - encoding the associated Media Access Control address of the next device in a polling frame;

acquiring control of the channel;
transmitting the polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and
exchanging data over the channel from the identified device during the respective session.

3. (Previously presented) The device of claim 1, wherein
receiving the data is to be within a Short Inter-Frame Spacing (SIFS) of transmitting the polling frame.

4. (Previously presented) The device of claim 1, wherein
the polling frame is a Clear To Send (CTS) frame.

5. (Currently amended) A communication device comprising:
a physical medium; and
a processor coupled with the physical medium, the processor: wherein the processor is adapted to
~~transmit~~ transmitting a reservation request through a wireless communication channel during a Centralized Contention Interval;
~~receive~~ receiving a polling frame through the channel while in a Distribution Coordination Function (DCF) mode, the polling frame including a Media Access Control address;
~~decode~~ decoding a return address the Media Access Control address from the polling frame;
~~determine~~ determining whether ~~the return address~~ the Media Access Control address from the polling frame matches an address of a Medium Access Control (MAC) sublayer of the device; and
if so, ~~transmit~~ transmitting data from the MAC sublayer through the channel.

6. (Currently amended) The device of claim 5, ~~wherein the processor is further adapted to~~ the processor further:
~~decode~~ decoding a duration of a session window from the polling frame; and
discontinue transmitting data after the session window ends.

7. (Previously presented) The device of claim 5, wherein transmitting the data from the MAC sublayer is to be performed within a Short Inter-Frame Spacing (SIFS) from receiving the polling frame.
8. (Previously presented) The device of claim 5, wherein the polling frame is a Clear To Send (CTS) frame.
9. (Currently amended) An article comprising: a storage medium, said storage medium having stored thereon instructions, that, when executed by at least one device, result in:
- (a) receiving a plurality of reservation request frames from a plurality of respective devices during a Centralized Contention Interval for a wireless communication channel, each reservation request frame including a Media Access Control address;
 - (b) decoding a reservation request and the Media Access Control address from each reservation request frame, ~~and a return address of a Medium Access Control (MAC) sublayer of an associated device;~~
 - (c) determining at the Medium Access Control (MAC) ~~MAC~~ sublayer a schedule of transmission sessions for exchanging data with the respective devices as per the respective reservation requests;
 - (d) identifying one of the respective devices from the schedule as being the next one;
 - (e) encoding the associated Media Access Control address ~~return address~~ of the next device in a polling frame;
 - (f) acquiring control of the channel;
 - (g) transmitting the polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and
 - (h) exchanging data over the channel from the identified device during the respective session.
10. (Currently amended) The article of claim 9, wherein the instructions further result in: identifying another one of the respective devices from the schedule as being the next one; and
- ~~repeating (c) through (h);~~
 - encoding the associated return address of the next device in a polling frame;
 - acquiring control of the channel;

transmitting the polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and
exchanging data over the channel from the identified device during the respective session.

11. (Previously presented) The article of claim 9, wherein
receiving the data is within a Short Inter-Frame Spacing (SIFS) of transmitting the polling frame.
12. (Previously presented) The article of claim 9, wherein
the polling frame is a Clear To Send (CTS) frame.
13. (Currently amended) An article comprising: a storage medium, said storage medium having stored thereon instructions, that, when executed by at least one device, result in:
transmitting a reservation request through a wireless communication channel during a Centralized Contention Interval;
receiving a polling frame through the channel while in a Distribution Coordination Function (DCF) mode, the polling frame including a Media Access Control address;
decoding a ~~return~~ Media Access Control address from the polling frame;
determining whether the ~~return~~ Media Access Control address matches an address of a Medium Access Control (MAC) sublayer of the device; and
if so, transmitting data from the MAC sublayer through the channel.
14. (original) The article of claim 13, wherein the instructions further result in:
decoding a duration of a session window from the polling frame; and
15. (Previously presented) The article of claim 13, wherein
transmitting the data from the MAC sublayer is performed within a Short Inter-Frame Spacing (SIFS) from receiving the polling frame.
16. (Previously presented) The article of claim 13, wherein
the polling frame is a Clear To Send (CTS) frame.

17. (Currently amended) A method comprising:

- (a) receiving a plurality of reservation request frames from a plurality of respective devices during a Centralized Contention Interval for a wireless communication channel, each reservation request frame including a Media Access Control address;
- (b) decoding a reservation request and the Media Access Control address from each reservation request frame, ~~and a return address of a Medium Access Control (MAC) sublayer of an associated device;~~
- (c) determining at the Medium Access Control (MAC) MAC sublayer a schedule of transmission sessions for exchanging data with the respective devices as per the respective reservation requests;
- (d) identifying one of the respective devices from the schedule as being the next one;
- (e) encoding the associated ~~return address~~ Media Access Control address of the next devices in a polling frame;
- (f) acquiring control of the channel;
- (g) transmitting the polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and
- (h) exchanging data over the channel from the identified peripheral stations ~~devices~~ during the respective session.

18. (Currently amended) The method of claim 17, further comprising:

- identifying another one of the respective devices from the schedule as being the next one; and
- ~~repeating (e) through (h).~~
- encoding the associated Media Access Control address of the peripheral stations in a polling frame;
- acquiring control of the channel;
- transmitting the polling frame over the channel while in a Distribution Coordination Function (DCF) mode; and
- exchanging data over the channel from the identified peripheral stations during the respective session.

19. (Previously presented) The method of claim 17, wherein

- receiving the data is within a Short Inter-Frame Spacing (SIFS) of transmitting the polling frame.

20. (Previously presented) The method of claim 17, wherein the polling frame is a Clear To Send (CTS) frame.
21. (Currently amended) A method comprising:
transmitting a reservation request through a wireless communication channel during a Centralized Contention Interval;
receiving a polling frame through the channel while in a Distribution Coordination Function (DCF) mode, the polling frame including a Media Access Control address;
decoding a ~~return~~ Media Access Control address from the polling frame;
determining whether the ~~return~~ Media Access Control address matches an address of a Medium Access Control (MAC) sublayer of the device; and
if so, transmitting data from the MAC sublayer through the channel.
22. (original) The method of claim 21, further comprising:
decoding a duration of a session window from the polling frame; and
discontinuing transmitting data after the session window ends.
23. (Previously presented) The method of claim 21, wherein transmitting the data from the MAC sublayer is performed within a Short Inter-Frame Spacing (SIFS) from receiving the polling frame.
24. (Previously presented) The method of claim 21, wherein the polling frame is a Clear To Send (CTS) frame.